

3RD GRADE SCIENCE EXIT EXPECTATION BOXES

EARTH SCIENCE

- **SPACE**
 - *Know that the Earth is part of a solar system consisting of a sun, several planets and their moons, asteroids, comets, and meteors*
 - *Explain that gravity holds people and objects to the Earth's surface and is a force throughout the solar system*
 - *Know that night and day are caused by the Earth's rotation on its axis*
 - *Infer that the tilt of the Earth's axis in relation to the Sun causes the seasons*
 - *Analyze that the planets rotate on their axis and revolve around the Sun*
 - *Infer that spatial bodies are large and separated by vast distances*
- **EARTH'S STRUCTURE/COMPOSITION**
 - *Discover that soil has properties*
 - *Demonstrate that different soils hold different amounts of water*
 - *Identify soil as one of the Earth's layers*
 - *Observe fossil samples and understand how they are formed*
 - *Describe that water is used in many ways*
 - *Identify the major differences between fresh and ocean waters*
- **WEATHER**
 - *Identify rain, snow, hail and sleet as forms of precipitation*
 - *Understand that the Sun is the source of energy that drives the water cycle*
 - *Know that air is a substance that surrounds us, takes up space, and moves around as wind*
 - *Know that the Sun provides the light and heat necessary to maintain the temperature of the Earth*
 - *Identify stratus, cumulus, and cirrus as the three main categories of clouds*
 - *Understand the formation of a cloud and fog*
- **CHANGES IN THE EARTH**
 - *Explain that soil is made up of particles of stone and dead plant and animal material*

PHYSICAL SCIENCE

- **MATTER**
 - *Identify how objects of the world have similarities and differences*
 - *Discover that substances are soluble or insoluble in water*
- **FORCES/MOTION AND ENERGY**
 - *Infer that electrical appliances make life easier*
 - *Identify the six simple machines*
 - *Observe that simple machines can reduce the force needed to perform work*
 - *Evaluate that simple machines can be combined in different ways to create complex machines*
- **ELECTRICITY/MAGNETISM**
 - *Infer that electrical energy can be dangerous*

3RD GRADE SCIENCE EXIT EXPECTATION BOXES

LIFE SCIENCE

- ANIMALS
 - *Classifications*
 - Know different ways living things can be grouped
 - Identify that animals are vertebrates and invertebrates
 - *Cycles*
 - Explain that an endangered organism is a kind of animal that is in danger of becoming extinct
- PLANTS
 - *Characteristics*
 - Explain the importance of sunlight, water, air, and nutrients to the growth and survival of plants
 - Describe the function of roots, stems, leaves, and flowers
 - Identify the parts of a flower
 - Explain that vegetables are the root, stem, leaf, seed, or fruit of a plant
 - *Life Cycles*
 - Know that plants and animals progress through life cycles of birth, growth and development, reproduction, and death
 - Compare/contrast life cycles for different organisms
 - Explain that fruits develop from the flower of a plant
- ENVIRONMENT
 - *Habitats*
 - Explain that animals can survive only in environments in which their needs can be met
 - Infer that an animal's habitat is the environment in which it lives
 - Explain that animals obtain the things they need from their habitats
 - *Adaptations*
 - Observe how animals adapt to their habitats
 - Identify an extinct organism that no longer lives on Earth
 - Explain that certain plants and animals are either threatened, endangered, or extinct
 - Know that fossils can be compared to one another and to living organisms to observe their similarities and differences
 - *Interaction of Living Things*
 - Know that changes in the environment can have an impact on different organisms